

CZECHOSLOVAKIA/General Problems of Pathology - Tumors.
Metabolism.

U.

Abs Jour : Ref Zbir - Biol., No 21, 1958, 98175
Author : Vecerek, Bretislav; Kacl, Karol; Vecerkova, Jaromila;
Chundela, Bedrich
Inst : Universitas Carolina
Title : Curves of Activity of Serum Phosphatases in Some Cases of
Carcinoma.
Orig Pub : Univ. carolina. Med., 1955, Suppl. No 1, 176-181
Abstract : By study of phosphatase activity (PhA) in blood of patients
with tumors, it was noted that its fluctuation was related
to the lapse of time after blood drawing. Immediately
upon drawing, PhA is normal, then it increases, reaching a
maximum after 2-6 hours; after that it again returns to
normal. In the blood of healthy individuals, such fluctua-
tions were not noted. --- S.Ya. Marmorshcyn
Card 1/1

- 24 -

Chundela, Bedrich

The estimation of free amino acids in biological material.
1. A new method for the estimation of glutamic acid in CH blood. Eva Amchová-Pružková, Vlad. Mareček, Bedřich Chundela, and Karel Kácl (I. ústav pro chem. lékařskou, Prague). *Casopis Lékařů Českých* 94, 771-4 (1959).— Deproteinize 5 ml. venous blood by 30 ml. EtOH acidified with 3 drops concd. HCl. Repeatedly wash the filter with a total vol. of 70 ml. acidified EtOH. Add 10 ml. water, NH₃ to pH 6.6-7.0, and charcoal to the filtrate and evap. *in vacuo* (2 mm. Hg) below 60°. Dissolve the weighed residue in 0.5 ml. 50% EtOH, filter through cotton and charcoal, and apply 0.03 ml. on paper. Repeat chromatography with BuOH-AcOH-water mixt. (4:1:5) 5 times. After ninhydrin detection (0.1% in BuOH, 60° for 20 min.) and treatment with Cu(NO₃)₂ soln., elute the glutamic acid (I) spot with 5 ml. abs. MeOH and read at 504 m μ . Construct a standard curve by using various amounts of I, standard of I run on the same paper sheet yields a correction. The mean error is ±5%. I level varies in the same individual. Preliminary results were in the range 2-3.8 mg. %.

I. M. Hais

(3)

CHUNDRA AND VOREL

The [qualitative] determination of arsenic in addition to
antimony. Bedřich Chundela and František Vorel
Ústav chem. Mkaříkou, KU, Prague, Československo
Technický ročník 1961, 113 (1967). A method is described for
separation of As from Sb in basic media. After reduction of
As⁵⁺ to As³⁺ by NaBH₄, it is trapped in a pyridine solution of
Ag⁺. When all As is released from the Ag complex, the
silver is selectively reduced to As³⁺ and trapped in a pyridine
solution of Ag⁺. After separation of As³⁺ from Sb³⁺ by precipitation
in a purple color. Sb does not precipitate in this way.
When all I is released from the Ag complex, the silver
is filtered off, the medium acidified, and I⁻ is added and Sb³⁺ reduced to SbH, which is trapped in the same
way as I⁻, giving a cherry red color. The method is
unsuitable for quant. detn.

CHUNDELA, B.; JANAK, J.

Quantitative determination of ethanol in the blood by means of
gas.chromatography. Cas.lek.cesk. 99 no.3/4:90-95 22 Ja '60.

1. Laborator pro toxikologii a soudni chemii KU, Praha, prednosta
prof.dr. K. Kacl a Cs. akademie ved. Laborator pro analyzu plynů,
Brno.

(ALCOHOL ETHYL blood)

CHUNDELA, B.; JANAK, J.; NIKOLICOVA, L.; KACL, K.

Comparison of the determination of alcohol in the blood by Widmark's method and by gas chromatography. Acta univ. carol. [med.] Suppl. 14: 303-309 '61.

1. Laborator pro toxikologii a soudni chemii fakulty vseobecnoho lekarstvi University Karlovy v Praze, prednosta prof. dr. K. Kacl Laborator pro analysu plynu CSAV, Brno, vedouci inz. J. Janak.
(ALCOHOL ETHYL blood) (CHROMATOGRAPHY)

JANOTA, Milos; CHUNDELA, Bedrich

Acute dichlorethane poisoning. Prac. lek. 16 no. 2:69-72 Mr'64

I. II. interni klinika fakulty všeobecného lékařství KU
[Karlovy university] v Praze (prednosta: prof. dr. F. Herles,
DrSc.) a Laborator pro toxikologii a soudní chemii fakulty
všeobecného lékařství KU [Karlovy university] v Praze (ve-
doucí: prof. dr. K. Macík, DrSc.).

CHUNDERLIK, V.

A rare case of endometrial hyperplasia. Akush. i gin. 34 no. 6:57-60
N-D '58. (MIRA 12:1)

1. Iz kafedry okhrany materinstva (zav. - prof. T. Shvarts) Koshitsa
(Chekhoslovakija).

(ENDOMETRIUM, dis.
hyperplasia (Rus))

CHUMDRCVA, A.I., Cand Bio Sci -- (disc) "Amelioration of ~~soil~~ conditions
of the development of azobacteria ^{to} in the rhizosphere of plants ^{on} acidic
turfy podzolic soils, and ~~the enhancement~~ ^{of} the effectiveness of azobacte-
rine upon its introduction together with organomineral mixtures."

Len, 1958 18 pp (All-Union Order of Lenin Acad/Agr Sci im V. I. Lenin,
All-Union Sci Res Inst of Agricultural Microbiology) 100 copies
(KL, 24-58, 118)

-31-

31

CHUNDEROVA, A.I.

Development of Azotobacter in the rhizosphere of plants in acid
turf-Podzolic soils in case of its use together with organomineral
mixtures. Trudy Vses. inst. sel'khoz. mikrobiol. no.14:213-222
'58. (MIRA 15:4)

(Azotobacter) (Rhizosphere microbiology)

CHUNDEROVA, E.I., kand. biolog. nauk; SHULYNDIN, A.P., prof.

"Millet fatigue" and its causes. Zemleispolie 26 no.2:84-
88 F '64. (MIRA 1736)

I. Ukrainskiy nauchno-issledovatel'skiy institut rasteniyevodstva,
selektcii i genetiki imeni V.Ya. Iur'yeva.

CHUNDEROVA, A.I.

Phosphatase activity of the corn rhizosphere microflora.
Mikrobiologija 33 no.1:102-106 Jan-F '64. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut rasteniyevodstva,
selektaii i genetiki.

CHUNDEROVA, A.I.

Injury to the millet root system by Fusarium oxysporum and
Helminthosporium sativum as the main cause of soil fatigue
for millet. Mikrobiologija 33 no.2:292-297 Mr-Ap '64.

(MIRA 17:12)

TIMASHOV, G.I., inzh.; CHUNDUKOV, T.I., inzh.

Operation of a hydroelectric power station without attending personnel. Elek. sta. 33 no.7:85-86 Jl '62. (MIRA 15:8)
(Hydroelectric power stations)

L 40947-66

ACC NR: AP6030998

SOURCE CODE: BU/0015/66/027/001/0104/0109

AUTHOR: Chunev, D.; Zagorchev, Iv.; Kostov, Il.

ORG: Scientific Research Geological Institute, GUGOZN (Nauchnoizsled. geol. institut pri GUGOZN)

TITLE: Pliocene of the Karlovo plain

SOURCE: Bulgarsko geologichesko druzhestvo. Spisanie, v. 27, no. 1, 1966, 104-109

TOPIC TAGS: geology, physical geology

ABSTRACT:

Drilling investigations seem to indicate that the Pliocene sediments of the Karlovo plain may be divided into two lithological horizons the lower of which contains mainly greyish-blue and greyish-green clays, and sandstones with coal and diatomite intercalations while the upper contains gravels composed of granite and gneiss fragments and light-grey to white clays and sandstones. The Sredna Gora anticline, along with the allochthon of the Balkan granite overthrust, has been the source of terrigenous material. The most intensive faulting and elevation of the Balkan block occurred after the Pliocene.

The authors thank Iv. Vaptsarov for consultation on the geomorphological questions, and Zh. Trashlieva for carrying out the microscope research. Orig. art. has: 2 figures. [Based on authors' Eng. abst.] [JPRS: 36,844]

SUB CODE: 08 / SUBM DATE: 19May65 / ORIG REF: 010

Card 1/1 *lc*

CHUNIKHIN, A. A.

Cand. Tech. Sci.

Dissertation: "Analysis of Existing Methods for Calculating Regenerative Voltage and New Calculating Method for Circuits with Distributed Constants." Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, 25 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

CHUNIKHIN, A.A.

RABIKOV, M.A., professor, doktor tekhnicheskikh nauk; CHUNIKHIN, A.A.,
dotsent, kandidat tekhnicheskikh nauk

New arc-extinguishing apparatus for increasing the breaking ca-
pacity of the VM-22 6kv circuit breaker. Trudy MEI no.15:21-54
'55.
(MIRA 8:11)

1. Kafedra elektricheskikh apparatov Moskovskogo ordena Lenina
energeticheskogo instituta imeni V.M.Molotova
(Electric circuit breakers)

CHUNIKHIN, A.A.

SLIVANSKAYA, A.G., kandidat tekhnicheskikh nauk; CHUNIKHIN, A.A., dotsent,
kandidat tekhnicheskikh nauk

Calculation of the dynamic tractive characteristic of the direct-current electromagnet. Trudy MEI no.15:188-207 '55. (MIRA 8:11)

1. Kafedra elektricheskikh apparatov Moskovskogo ordena Lenina
energeticheskogo instituta imeni V.M.Molotova
(Electromagnets)

S/196/61/000/009/036/052
E194/E155

AUTHOR: Chunikhin, A.A.

TITLE: The reduction of power loss in the ferromagnetic parts of an oil circuit-breaker

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.9, 1961, 37, abstract 9I 238. (Vestn. elektropromsti, no.2, 1961, 53-56)

TEXT: Kafedra elektricheskogo apparatostroyeniya (Department of Electrical Apparatus Construction) of MEI, together with the Tsentral'naya vysokovol'tnaya laboratoriya (Central High Voltage Laboratory) of Mosenergo, has made thermal tests on a high-power circuit breaker which showed that with a current of 600 A the new rosette type contact and plunger run at a permissible temperature. However, the upper inlet flange, made of cast iron, and the steel fixing clip of the flexible connection, ran at a temperature of 90 °C. In order to increase the output of circuit breakers types BM-14 (BM-14) and BM-22 (VM-22), steel was widely used for parts of the arc suppression chambers. Because of losses in these parts the contact temperature rose to 85 °C and only by Card 1/2

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The reduction of power loss ...

S/196/61/000/009/036/052
E194/E155

introducing non-magnetic gaps and replacing certain of the steel parts by bronze was it possible to reduce the temperature to a permissible value. Since circuit breaker type ~~BMF~~-133-11 (VMG-133-11) operates under severe thermal conditions, loss measurements were made which showed that although the power losses are considerable they have little influence on the contact temperatures. However, the losses are so big that the manufacturer should take steps to reduce them. The use of non-magnetic materials for entry flanges and alteration of the steel fixing clips could almost halve the losses. In two years' service the cost of the power losses in a single circuit-breaker type VMG-133-11 exceeds the cost of the breaker. Therefore, in developing new constructions, and replacing non-ferrous metals by ferrous in existing designs, attention should be paid not only to making the actual equipment cheaper but also to the cost of the power losses. 4 illustrations.

[Abstractor's note: Complete translation.]

Card 2/2

CHUNIKHIN, A.A., kand.tekhn.nauk

Effect of the magnitude of the current during the moment of contact separation on the arc-quenching process in oil-type electric cutouts. Vest.elektroprom. 32 no.8:35-38 Ag '61. (MIRA 14:8)
(Electric discharges) (Electric cutouts)

CHUNIKHIN, A.A., kand.tekhn.nauk; KHOMYAKOV, M.V., inzh.; LOGINOV, A.D., tekhnik

Increase in the switching capacity of VMG-133-II cutouts. Vest,
elektroprom. 33 no.8:56-60 Ag '62.
(Electric cutouts) (MIRA 15:7)

BACHURIN, N.I., inzh.; VOLKOV, S.S., inzh.; GORODETSKIY, S.S., prof., doktor tekhn. nauk; GUSEV, S.A., dotsent, kand. tekhn. nauk; ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk; IVANOV-SMOLENSKIY, A.V., dots., kand. tekhn. nauk; KIFER, I.I., dots., kand. tekhn.nauk; KORYTIN, A.A., starshiy prepodavatel'; KULIKOV, F.V., dots.; NIKULIN, N.V., dots., kand. tekhn. nauk; PODMAR'KOV, A.N., dots.; PRIVEZENTSEV, V.A., prof., doktor tekhn. nauk; RUMSHINSKIY, L.A., dots., kand. fiz.-mat. nauk; SOBOLEV, V.D., dots., kand. tekhn.nauk; URLAPOVA, M.N., inzh.; TIKHOMIROV, P.M., dots., kand. tekhn. nauk; FEDOROV, A.A., dots., kand. tekhn. nauk; CHUNIKHIN, A.A., dots., kand. tekhn. nauk; CHILIKIN, M.G., prof., glav. red.; GOLOVAN, A.T., prof., red.; GRUDINSKIY, P.G., prof., red.; PETROV, G.N., prof., doktor tekhn. nauk, red.; FEDOSEYEV, A.M., prof., red.; ANTIK, I.V., inzh., red.; BORUNOV, N.I., tekhn. red.

[Electrical engineering handbook] Elektrotekhnicheskii spravochnik. 3., perer. i dop. izd. Pod obshchei red. A.T. Golovana i dr. Moskva, Gosenergoizdat. Vol.1. 1962. 732 p.
(MIRA 15:10)

1. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy, Petrov, Fedoseyev, Chilikin, Antik).

(Electric engineering--Handbooks, manuals, etc.)

CHUNIKHIN, A.A., kand.tekhn.nauk; GODZHELLO, A.G., inzh.; LOGINOV, A.D.,
tekhnik

Increase in the reliability of the VMG-133-II electric cutout
operating with different types of drives. Energetik 11 no.5:
24-28 My '63. (MIRA 16:7)
(Electric cutouts)

CHUNIKHIN, Irina

"On the Decomposable p-Groups." Dok AN. Vol. 39, No. 2, 1943.

E Mbr., Electro-Mechanical, Inst. Railroad Engineering.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

CHUNIKHIN, I.I.
KOVALEVSKIY, P.N.; CHUNIKHIN, I.I.

Replacing thyratrons. Stan. i instr. 29 no.1:26-27 Ja '58.
(Thyatrona) (MIRA 11:1)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

POPOV, A.F., inzh.; CHUNIKHIN, K.T., inzh.; MEL'NIKOV, Ye.G., inzh.

Reinforced-concrete elements for farm buildings. Bet. i zhel.-bet.
no.5:205-206 My '61. (MIRA 14:6)
(Reinforced concrete construction)
(Farm buildings)

CHUNIKHIN, P. A.

583

Opyt rabory zhivornovodcheskoy fermy
kolkhola imeni kirova, Nagornogo rayona. Nol'chik, Kabard.
kn. izd, 1954. 44 s. 14 sm. (za novyy moshchnyy pod'yem
sel'skogo khozyaystva). 2.000 ekz. 35 k.-Na kabard.
yaz.-54-51373 636.083 sr (47.912)

SO: Knizhnaya Letopis, Vol. 1, 1955

Schurz
CHUNIKHIN, P. A. Cand Agr Sci -- (diss) "The Hybrid Cattle of
Kabard~~A~~ and Its Breeding and Handling." Mos, 1957. 13 pp 22 cm.
(All-Union Scientific Research Inst of Animal Husbandry),
110 copies (KL, 25-57, 116)

-108-

110

Country : USSR
CATEGORY : Farm Animals. Cattle Q
ABS. JOUR. : RZBiol., No. 13, 1958, No. 59487
AUTHOR : Chunikhin, P. A.
INST. : Kabardino-Balkarskiy Scientific Research*
TITLE : Schwyz Cattle of Kabardino-Balkariya

ORIG. PUB. : Uch. zap. Kabardino-Balkarsk. n.-i. in-ta,
1957, 12, 143-162
ABSTRACT : During 25 years, a crossing of local cattle
with the Schwyz was conducted in Kabardino-
Balkariya, and the crosses were inbred. The
methods applied in breeding are described
and the characteristics of the original
groups of cattle (local, Schwyz and partly
other breeds - Kostromskaya, Lebedinskaya,
Brown Carpathian) are given, as well as

* Institute

CARD: 1/2

CHUPRIKHN, S. A.

O spetsial'nykh gruppakh. Matem. sh., 36 (1929), 135-137

So: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

CHUDNICK, S. I.

Simplicité de groupe fini et les ordres de ses classes d'éléments conjugués.
C R Acad. Sci., 191 (1930), 397-399

So: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948

CHUTAEV, S. A.

O spetsial'nykh gruppakh, 11. Matem. sb., 40 (1933), 39-41.

So: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

CHUVTIKHIN, S. A.

O razseshimykh gruppakh. Tomsk, Izv. NII matem. i mekh. un-ta, 2:2
(1931), 220-223.

So: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948

ЧУНИНН, С. А. і ЧУНІННА, І. К.

О r-razlozhimykh gruppakh. Matem. sb., 15 (57), (1944), 325-342.

So: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

CHUMIKHIN, S. A.

K teorii neassotsiativnykh p-grupp s postulatom K. DAN. 4^o (1945), 7-10.

So: Mathematics in the USSR, 1917-1947

edited by Kurcsh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

CHUMAKHIN, S. A.

O r-svoystvakh grupp. DAN. 55 (1947), 481-484

So: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

Tchoupinikhin, S. A. Soviet scientist. Born 1900.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

Cunihin, S. A. On subgroups of relatively soluble groups.
Proc. U.S. Acad. Nauk 55-52, N.Y., 1959, 1205-1207

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

Cunihin, S. A. On H-separable groups

Arrangement by ... 1962

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

CHUNIKHIN, S. A.

37164. O p-svoystvakh konechnykh grupp. Matem. Sbornik, Novaya Seriya,
t. XXV, Vyp. 3, 1949, s. 321-46 --- Bibliogr: 1/4, Nasv.

SO: Letopis' Zhurnal'nykh Statey, Vol 7, 1949

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

Chernikov, S. A. On Stieltjes properties of finite groups.

Reviews, Mathematical Reviews.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

A3f.R
C2d.R
C2n.R
E3.R

CHUNIKHIN, S.A.
Prof.-Doktor

Tomskiy Elektromekhanicheskiy Institut Inzhenerov
Zheleznodorozhnogo Transporta.
Author of the article "Chto tormozit povysheniye kvalifi-
katsii professorov."

Source: Vestnik Vysshey Shkoly, No. 9, 1951, pp. 62-63
Izdatel'stvo "Sovetskaya Nauka."

1-4960

CHUNIKHIN, S. A.

Čunikhin, S. A. On weakening the conditions in theorems

of solvability
of systems of equations
by factor-technique and
other methods

factor-structure of type II-2 if "II-1" is replaced by "II-1"
or if the term "permutation" is replaced by "permutation".

II-permutable serves every factor-structure of type II-1 or II-2
if "II-1" is replaced by "permutation".

Source: Mathematical Reviews

Vol. 13 No. 10

CM

CHUNIKHIN, S. A.

USSR/Mathematics - Modern Algebra, Finite Groups 1 Sep 52

"Subgroups of a Finite Group," S. A. Chunikhin

"Dok Ak Nauk SSSR" Vol 86, No 1, pp 27-30

States that Silov's theorem is undoubtedly the fundamental theorem in the theory of groups which permits one to establish in a group the existence of subgroups, especially in the case of finite groups, where it is an irreplaceable and constantly useful means of investigation. Around this theorem has been created an extensive literature which contains many analogies

234TP83

and generalizations of the theorem. In this article, as well as in 10 previous ones by the author ("Dok Ak Nauk SSSR" 1947-52), the author derives certain extensions of this type which are sufficient or necessary criteria governing the existence and conjointness of subgroups of definite type. Submitted by Acad I. M. Vinogradov 11 Jul 52.

234TP83

CHUNIKHIN, S. A.

USSR/Mathematics - Group Theory

Jul/Aug 53

"Existence and Conjointness of Subgroups in a Finite Group," S. A. Chunikhin, Tomsk

Mat Sbor, Vol 33 (75), No 1, pp 111-132

Weakens the conditions in the Silov-type theorems. Demonstrates two theorems on the sufficient and necessary criteria for the existence of subgroups and a theorem on the maximum subgroups of P-soluble groups. Cites related work of O. Ore ("Theory of Groups of Finite Order," Duke Math J. 5 (1939)).

271T84

Cites the Soviet works of P. A. Gol'berg (1949), S. L. Edel'man (1951), and B. V. Kazachkov (1952).

Presented 22 Aug 52.

CHUNIKHIN, S. A.

21 Jul 53

USSR/Mathematics - Modern Algebra

"Imposition (Vlozheniye) and the Number of Subgroups in Pi-Divisible Groups,"

S. A. Chunikhin

DAN SSSR, Vol 91, No 3, pp 461,462

Presents, by way of 4 theorems, results obtained (1947-1953) by the author in connection with investigations of the latter 2 of the 4 familiar parts of the classical Silov theorem for finite groups, and the Hall theorem for finite resolvable groups. The 4 theorems are: (1) existence of subgroups, (2) conjointness of subgroups, (3) imposition of subgroups, and (4) number of subgroups. Presented by Acad I. M. Vinogradov 16 May 53.

262T63

Cunibin, S. A. On the decomposition of II-separable groups into a product of subgroups. Doklady Akad. Nauk SSSR (N.S.) 95, 725-727 (1954). (Russian)

[For terminology, see same Doklady (N.S.) 86, 27-30 (1952); these Rev. 14, 350.] Let m be the maximal II-Sylow divisor of the order g of the II-separable group \mathfrak{G} . Then each factorization $m = m_1m_2$ with $(m_1, m_2) = 1$ corresponds a factorization $\mathfrak{G} = \mathfrak{M}_1\mathfrak{M}_2$, where \mathfrak{M}_j and \mathfrak{M}_2 are subgroups of \mathfrak{G} such that m_j is the maximal II-Sylow divisor of the order of \mathfrak{M}_j for $j = 1, 2$. Repeated application of this result yields a factorization of \mathfrak{G} as a product of as many subgroups as there are prime-power factors in the decomposition of m .

R. A. Good (College Park, Md.).

CHUNIKHIN, S. A.

USSR/ Mathematics - Topology

Card 1/1 : Pub. 22 - 8/44

Authors : Chunikhin, S. A.

Title : About factoring finite groups

Periodical : Dok. AN SSSR 97/6, 977-980, Aug 21, 1954

Abstract : The possibilities of presenting sets (groups) in the forms of products of their own subsets are considered. There is a series of theorems intended to prove that the results obtained by Hall and "Shur" in studying sets are only particular features of more general properties characteristic of all finite sets. Four references (1937-1954).

Institution : White Russian Institute of Engineers of the Railway Transport

Presented by : Academician I. M. Vinogradov, May 25, 1954

CHUNIKHIN, S.A.

On P -permissible subgroups of finite groups. Dokl. AN SSSR 103
no.3:377-378 J1 '55. (MLRA 8:11)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta.
Predstavлено академиком I.M.Vinogradovym
(Groups, Theory of)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

CHUNIKHIN, S.A. (Gomel').

Factorization of finite groups. Mat. sbor. 39 no.4:465-
490 Ag '56. (MLRA 10:2)

(Groups, Theory of)

APPROVED FOR RELEASE: 06/12/2000

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"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

AUTHOR: Chunikhin, S.A. CHUNIKHIN, S.A. (Gomel') 39-1-5/8
TITLE: Π - Factorization of Finite Groups (Π - faktorizatsiya konechnykh grupp).
PERIODICAL: Matematicheskiy Sbornik, 1957, Vol. 43, № 1, pp. 49-66 (USSR)
ABSTRACT: The present paper contains the proofs for the three theorems announced by the author two years ago (see Doklady Akad. Nauk 108, 397 - 399, 1956).
SUBMITTED: Three Soviet references are quoted.
May 29, 1956
AVAILABLE: Library of Congress

Card 1/1

AUTHOR: Chunikhin, S.A. 20-118-4-8/61

TITLE: Complexes of Nonspecial Subgroups and p-Nilpotency of Finite Groups (Komplekty nespetsial'nykh podgrupp i p-nil'potentnost' konechnykh grupp)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 118, Nr 4, pp 654-656 (USSR)

ABSTRACT: Let G be a finite group; \mathbb{Z} - unit group; p - prime number; pd - group a finite group the order of which is divisible by p ; p -special group - finite group with an invariant p -Sylow subgroup; p -nilpotent group - finite group with an invariant p -Sylow complement; special group - finite group all the Sylow subgroups of which are invariant; group of the type S - finite nonspecial group, the nontrivial subgroups of which are special; p -reducible \equiv p -special + p -nilpotent; group of the type S_p - finite nonspecial pd -group, all the nontrivial pd -subgroups of which are special; Π - nonempty set of K prime divisors of the order g of the group $G \neq \mathbb{Z}$; Π -complex of G - every set of pairwise nonisomorphic subgroups of G if there exists a unique mapping of Π onto Λ such that the image Λ_p of each $p \in \Pi$ is a pd -subgroup; ΠS -complex, oriented ΠS -complex, ΠS_p -complex are Π -complexes, all the Λ_p subgroups of which

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are of the type S resp. p-special subgroups of the type S,
resp. subgroups of the type S_p .

Theorem: G is p-nilpotent then and only then if it contains no
p-special pd-subgroup of the type S.

Theorem: Every nonspecial pd-group G contains a subgroup φ
of the type S_p with the following properties: 1) if G is not
p-nilpotent, then φ is a p-special pd-group of the type S,
2) if G is p-nilpotent but not p-reducible, then φ is a
p-nilpotent pd-group of the type S, 3) if G is p-reducible,
then φ is a direct product of a cyclic group of the order p
and a group of the type S, the order of which is not divisible
by p.

Theorem: Let G be not nilpotent with respect to every $p \in \Pi$.
Then G has at least one oriented Π_S -complex containing k
subgroups.

Theorem: Let G be irreducible with respect to all $p \in \Pi$, then it
has at least one Π_S -complex containing at least $\lceil \frac{k+1}{2} \rceil$ subgroups.

Theorem: A nonspecial G has at least one Π_{S_p} -complex containing
not less than $k-1$ subgroups.

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Complexes of Nonspecial Subgroups and p-Nilpotency of
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Theorem: If G_p has no ΠS_p -complex of nontrivial subgroups containing k subgroups, then G_p is Π -solvable.

Theorem: Let φ_p and φ_{p_1} be normal divisors of G_p , $\varphi_p \subseteq \varphi_{p_1} \cap \phi(G_p)$ where $\phi(G_p)$ is the Frattini-subgroup of G_p . Let φ_{p_1} contain a subgroup \mathfrak{N} of the order n, where $\varphi_{p_1} = \mathfrak{N} \varphi_p$ and all subgroups of the order n conjugate with \mathfrak{N} in G_p are already conjugate with \mathfrak{N} in φ_{p_1} . Then \mathfrak{N} is an invariant subgroup in G_p .

Two further theorems are given, one of them is a generalization of the theorem of Frobenius [Ref 13].

There are 13 references, 5 of which are Soviet.

ASSOCIATION: Belorussky institut inzhenerov zheleznodorozhnogo transporta
(Belorussian Institute of Railway Transportation Engineering)

PRESENTED: August 2, 1957, by I.M. Vinogradov, Academician

SUBMITTED: June 10, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHOR: Chunikhin, S.A.

SOV/20-121-2-13/53

TITLE: On a General Method for Forming Subgroups and Factorizations of Finite Groups (Ob odnom obshchem sposobе polucheniya podgrupp i faktorizatsii konechnykh grupp)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 2, pp 243-245 (USSR)

ABSTRACT: Let G be a finite group of the order g and let $G = G_0 \supset G_1 \supset \dots \supset G_n = \{e\}$ be a principal series with the sequence of indices $h_1, h_2, \dots, h_\lambda$. An admissible divisor of an h_j is a divisor which either is the maximal power of a prime number dividing h_j or 1 or h_j . Let $w: i_1, i_2, \dots, i_k$ be a non-empty subsequence of the sequence $1, 2, \dots, \lambda$. Let the function f correspond to every $i_j \in w$ an admissible divisor f_{i_j} of the index h_{i_j} . Let $\delta_{w,f} = f_{i_1} f_{i_2} \dots f_{i_k}$. Every number h of the form $\delta_{w,f}$ is called an indexial of the group G . Let $\Pi(n)$ denote the set of all prime divisors of the natural number n . Theorem: If h is an indexial of G , then G has at least one subgroup of the order hc , where $\Pi(c)$ is contained in $\Pi(h)$. From the theorem there follow several older theorems on the

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existence of subgroups (Silov, F.Hall, Schur, Chunikhin).

Theorem: Let G possess the normal divisor G_1 with the order g_1 .

Let p^α , $\alpha > 0$, and q^β , $\beta > 0$, be maximal powers of the equal or different numbers p and q which divide $\frac{f}{g_1}$ and g_1 respectively.

Then G has at least one ^{sub}group of the order $p^\alpha q^\beta$.

Let I_{G_1} denote the sequence $h_1, h_2, \dots, h_\lambda$. Let M be a subsequence of I_{G_1} . For a non-empty M let $|M|$ denote the product of all elements of M and for an empty M let $|M| = 1$. If M consists of an element m , then $|M| = m$.

Theorem: Let K be the set of all subsets M_1, M_2, \dots, M_M , $M \geq 1$ of I_{G_1} with the following properties: 1) the union of all M_i ($i=1, \dots, M$) be equal to I_{G_1} , 2) it is $|M_1| = m_1, |M_2| = m_2, \dots, |M_M| = m_M$.

To every K there corresponds a product representation $G = M_1 M_2 \dots M_M$, where M_1, M_2, \dots, M_M are certain pairwise exchangeable subgroups of G with the orders $m_1 c_1, m_2 c_2, \dots, m_M c_M$. For every

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$i=1, 2, \dots, n$ the set $\prod(c_i)$ is contained in $\prod(m_i)$.

Herefrom there follow the factorization of the author [Ref 1, 2]
and the statement of theorem A3 of Hall [Ref 3].
There are 3 references, 2 of which are Soviet, and 1 English.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(Belorussian Institute of RR Engineers)

PRESENTED: April, 17, 1958, by I.M. Vinogradov, Academician

SUBMITTED: April, 14, 1958

Card 3/3

16(1)

AUTHOR: Chunikhin, S.A.

SOV/20-126-2-16/64

TITLE: A General Mark of the Existence of Subgroups of Finite Groups

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 284-286 (USSR)

ABSTRACT: Let \mathcal{G} be the unit subgroup of the finite group G with the order $(G) = g$. Let

$$(R) \quad G = G_0 \supseteq G_1 \supseteq \dots \supseteq G_\omega = \mathcal{G}$$

be a series of normal divisors with or without repetitions and $h_1, h_2, \dots, h_\omega$ be the corresponding sequence of indices. Let the function f be defined on the sequence $w: \beta, \beta+1, \dots, \omega$ ($\beta \geq 1$). Let to every $i \in w$ correspond a certain divisor f_i of the index h_i , where a) the group G_{i-1}/G_i has the subgroup \mathcal{F}_i/G_i of the order f_i ; b) all subgroups of G_{i-1}/G_i conjugated with \mathcal{F}_i/G_i in $G_{\beta-1}/G_i$ are already conjugated with \mathcal{F}_i/G_i in G_{i-1}/G_i . The number $h = f_\beta f_{\beta+1} \dots f_\omega$ is called an indexial of (R). The numbers f_β, \dots, f_ω are called components of the indexial. Let

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$c = p_1^{a_1} p_2^{a_2} \dots p_k^{a_k}$; \mathcal{G} is called c -solvable if among the indices of its composition series for every $i=1, 2, \dots, k$ there exist at least a_i indices equal to p_i . Let $\Pi(n)$ denote the set of all prime divisors of n . The divisor d of m is called a $\Pi(n)$ -divisor of m if $\Pi(d) \subseteq \Pi(n)$.

Theorem: If h is the indexial of (R) with the components f_β, \dots, f_ω , then \mathcal{G} has at least one subgroup \mathcal{H} with the properties:

- 1) \mathcal{H} is contained in $\mathcal{G}_{\beta-1}$ and has the order $f_\beta^{c_{\beta+1}} f_{\beta+1}^{c_{\beta+2}} \dots f_\omega^{c_\omega}$ where $c_{\beta+1}, \dots, c_\omega$ are natural numbers.
- 2) for every $i = \beta+1, \beta+2, \dots, \omega$ the divisor c_i of the order of \mathcal{H} divides the number h_i/f_i , where $\Pi(c_i) \subseteq \Pi(f_\beta^{f_{\beta+1}} \dots f_{i-1})$.
- 3) If $\mathcal{H}_i = \mathcal{H} \cap \mathcal{G}_i$, $i = \beta-1, \beta, \dots, \omega$, then $f_\beta^{c_{\beta+1}} f_{\beta+1}^{c_{\beta+2}} \dots f_\omega^{c_\omega}$ is the sequence of the indices of the normal series

$$\mathcal{H} = \mathcal{H}_{\beta-1} \subseteq \mathcal{H}_\beta \subseteq \dots \subseteq \mathcal{H}_\omega = \mathcal{E}$$

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A General Mark of the Existence of Subgroups
of Finite Groups

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of the subgroup \mathfrak{G}_i .

4) For every $i = \beta+1, \beta+2, \dots, \omega$ the factor group $\mathfrak{G}_{i-1}/\mathfrak{G}_i$ has a normal divisor $\mathfrak{G}_{i-1}^*/\mathfrak{G}_i$ for which $\mathfrak{G}_{i-1}/\mathfrak{G}_{i-1}^*$ is a special group of the order c_i .

5) The divisors $c_{\beta+1}, \dots, c_\omega$ of the order of \mathfrak{G}_i have the property that for every $i = \beta+1, \dots, \omega$ the factor group $\mathfrak{G}_{i-1}/\mathfrak{G}_i$ contains the subgroup $\mathfrak{G}_{i-1}^*/\mathfrak{G}_i$ with the order $c_i f_i$, where $\mathfrak{G}_{i-1}^*/\mathfrak{G}_i$ has a normal divisor $\mathfrak{G}_{i-1}^*/\mathfrak{G}_i$ for which $\mathfrak{G}_{i-1}^*/\mathfrak{G}_{i-1}^*$ is a special group of the order c_i .

6) The subgroup \mathfrak{G}_i is c -solvable, where $c = c_{\beta+1} c_{\beta+2} \dots c_\omega$.

There are 10 references, 6 of which are Soviet, 1 Italian, 2 English, and 1 American.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(Belorussian Institute of Engineers of Railroad Transportation)

PRESENTED: February 6, 1959, by I.M.Vinogradov, Academician

SUBMITTED: February 5, 1959

Card 3/3

16(1) 16.2000

66406

AUTHOR: Chunikhin, S.A.

SOV/20-128-6-10/63

TITLE: On Partly Solvable Subgroups of Finite Groups

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, p 1135 (USSR)

ABSTRACT: The author uses notations and definitions of [Ref 1]. Besides: The number h^* which is obtained from the product $(h)_{R,f} = h = f_\beta f_{\beta+1} \dots f_\omega$ if all f_i for which the $\mathcal{G}_i/\mathcal{O}_i$ is not solvable, are replaced by 1, is called a filter of the indexial $(h)_{R,f}$ of the group \mathcal{O}_f .

Theorem: To every indexial $(h)_{R,f}$ of a finite group \mathcal{O}_f there exists a subgroup \mathcal{G}_f and a system of natural numbers $\sum = \{c_\beta = 1, c_{\beta+1}, \dots, c_\omega\}$ so that the following is valid: 1) \mathcal{G}_f is contained in $\mathcal{O}_{\beta-1}$ and has the order $f_\beta c_{\beta+1} f_{\beta+1} \dots c_\omega f_\omega$; 2) for every $i = \beta+1, \beta+2, \dots, \omega$ the divisor c_i of the order of \mathcal{G}_f divides also h_i/f_i , where $\prod(c_i) \leq \prod(f_\beta f_{\beta+1} \dots f_{i-1})$; 3) if $\mathcal{G}_i = \mathcal{G}_f \cap \mathcal{O}_i$, $i = \beta-1, \beta, \dots, \omega$, then $f_\beta, c_{\beta+1}, f_{\beta+1}, \dots, c_\omega f_\omega$ is the sequence of indices of the series $\mathcal{G}_f = \mathcal{G}_{\beta-1} \supseteq \mathcal{G}_\beta \supseteq \dots \supseteq \mathcal{G}_\omega = \mathcal{G}$ of normal divisors of \mathcal{G}_f ; 4) for every $i = \beta, \beta+1, \dots, \omega$ $\mathcal{G}_{i-1}/\mathcal{G}_i$

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On Partly Solvable Subgroups of Finite Groups SOV/20-128-6-10/63
has a normal divisor $\mathcal{G}_i^*/\mathcal{G}_i$ isomorphic to $\mathcal{G}^i/\mathcal{O}_i$ for which
 $\mathcal{G}_{i-1}/\mathcal{G}_i^*$ is a special group of the order c_i ; 5) the divisors
 $c_{\beta-1}, c_{\beta+1}, \dots, c_{\omega}$ of the order of \mathcal{G} have the property that
 $\mathcal{G}_{i-1}/\mathcal{G}_i$ contains the subgroup $\mathcal{O}_{i-1}^*/\mathcal{O}_i$ isomorphic to the
factor group $\mathcal{G}_{i-1}/\mathcal{G}_i$; 6) \mathcal{G} is ch*-solvable, where
 $c = c_{\beta+1} c_{\beta+2} \dots c_{\omega}$.
There are 3 Soviet references.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(Belorussia Institute of Engineers of Railroad Transportation)

PRESENTED: June 18, 1959, by I.M. Vinogradov, Academician

SUBMITTED: May 20, 1959

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Card 2/2

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vys.ucheb.zav.; mat. no.1:227-233 '60. (MIRA 13:6)

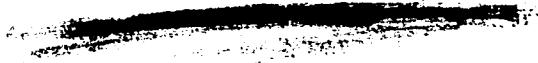
1. Belorusskiy institut inzhenerov zhelezsnodorozhnogo transporta.
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(Groups, Theory of)

CHUNIKHIN, S.A.

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recent years. Usp. mat. nauk 16 no.4:31-50 Jl-Ag '61. (MIRA 14:8)
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CHUKAVIN, S.A. (Gomel')

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(Groups, Theory of)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

CHUNIKHIN, S.A. (Gomel')

General method for deriving factorizations of finite groups.
Mat. sbor. 54 no.2:237-252 Je '61. (MIRA 14:8)

(Groups, Theory of)
(Transformations (Mathematics))

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

CHUNIKHIN, S.A.

Indexials of finite groups. Dokl. AN SSSR 136 no.2:299-300 '61.
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Predstavлено академиком I.M. Vinogradovym.
(Groups, Theory of)

CHUNIKHIN, S.A.

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(Groups, Theory of)

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I. Gomel'skoye otdeleniye Instituta matematiki i vychislitel'noy tekhniki AN Belorusskoy SSR. Predstavлено akademikom I.M. Vinogradovym.

(Groups, Theory of)

CHUNIKHIN, S.A.

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1. Gomel'skoye otdeleniye Instituta matematiki i vychislitel'noy
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(Groups, Theory of)

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(Groups, Theory of)

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CHUNIKHIN, S.P.

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Characteristics of the reproduction of birds in the Alpine area
of the Central Caucasus. Uch. zap. Kab.-Balk. gos. un. no.10:
193-198 '61.

Changes in the distribution and composition of avifauna of the
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CHUMIKHIN, S.P.

Geographical variability of forest pipits. Ornitologija no.4:453-457
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CHUNIKHIN, S.P.

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(Caucasus--Warblers)

CHUNIKHIN, S.P. (Moskva)

Salair taiga in fall. Priroda 51 no.10:128 0 '62. (MIRA 15:10)
(Salair ridge—Autumn)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

DENISOVA, N.V.; KALETSKIY, A.A.; ROMANOV, S.V.; CHUNIKHIN, S.P.

Black swans in the bodies of water of Moscow. Ornithologija
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(Moscow—Swans)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

GORCHAKOVSKAYA, N.N.; CHUNIKHIN, S.P.

Transmission of mites by thrushes in the taiga and wooded steppe
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117 '62. (MIRA 16:2)

(Salair Ridge—Thrushes)
(Salair Ridge—Birds as carriers of disease)

CHUNIKHIN, S.P.

Vertical zonality of the distribution of birds in Kabardino-Balkaria. *Ornitologija* no.5:186-192 '62. (MIRA 16:2)
(Kabardino-Balkar A.S.S.R.--Birds)

BAZIYEV, Zh.Kh.; CHUNIKHIN, S.P.

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"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2

CHUNIKHIN, S.P.

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(MIRA 17:6)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120011-2"

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CHUNIKHIN, S. (Moskva)

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Corn planter. Tekh. mol. 23 no.5:6-7 My '55. (MLRA 8:6)
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(TULAREMIA, transm.
natural foci, ravine-steppe type of focus
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